

COMPOSITE FRICTION DISC WITH STRUCTURAL CORE AND
REFURBISHABLE LINING ELEMENTS

ABSTRACT OF THE DISCLOSURE

A friction disc assembly having an annular structural core (40) and at least one friction lining disc (30). The annular structural core (40) is made from a strength-optimized carbon-carbon composite and the friction lining discs (30) from a friction-optimized carbon-carbon composite. Each friction lining disc (30) is provided with a mounting surface (31) and a wear surface (32). The structural core (40) includes at least one mounting surface (41). The mounting surfaces (31,41) may include corresponding sinusoidally-shaped wave patterns for increasing the surface area of a contact zone between the friction lining discs (30) and a reusable structural core (40).